

CALL FOR NOMINATIONS FOR THE YERAM S. TOULOUKIAN AWARD

Nominations are invited for the prestigious Yeram S. Touloukian Award in recognition of excellence in thermophysical properties research. Prominent researchers in all countries are eligible for this award. The Touloukian Award is an achievement award of the American Society of Mechanical Engineers (ASME). The award, presented in honor of Professor Yeram S. Touloukian, who established a high standard of excellence in internationally recognized research at Purdue University, is given every three years at the Symposium on Thermophysical Properties.

Nominations for the award to be presented at the Eighteenth Symposium must be submitted on or before September 1, 2011.

Nomination forms and further information are available from the web at http://www.asme.org/Governance/Honors/SocietyAwards/Yeram_S_Touloukian_Award.cfm (click on "Achievement Nomination Form & Instructions") or upon request from Mickey Haynes. The nomination should contain the completed "Nomination for ASME Society Awards" form, a statement of qualifications, a list of up to 15 significant publications, a list of patents if appropriate, and a brief biography; in addition, a cover letter by the nominator and supporting letters from five prominent individuals in the field of thermophysical properties should be included.

Completed nominations should be submitted to:

William M. "Mickey" Haynes
Thermophysical Properties Division 638.00
National Institute of Standards and Technology
325 Broadway
Boulder, CO 80305-3337 U.S.A.
Fax: (1) 303-497-5044
E-mail: william.haynes@nist.gov

GENERAL INFORMATION

All technical sessions will be held at the University of Colorado, Boulder, Colorado, U.S.A. The Symposium is organized by the National Institute of Standards and Technology, the American Society of Mechanical Engineers, and the American Institute of Chemical Engineers. The Eighteenth Symposium email address is: symp18@boulder.nist.gov:

Chair of the Symposium:
Dr. Daniel G. Friend
Thermophysical Properties Div., 638.00
National Institute of Standards and Technology
325 Broadway
Boulder, CO 80305-3337, U.S.A.
Fax: (1) 303-497-5044

Vice-Chair for Solids:
Dr. Neil T. Wright
Mechanical Engineering
2555 Engineering Building
Michigan State University
East Lansing, MI 48824 U.S.A.
Fax: (1) 517-353-1750

Vice-Chair for Fluids:
Dr. Marcia Huber
Thermophysical Properties Div., 638.08
National Institute of Standards and Technology
325 Broadway
Boulder, CO 80305-3337, U.S.A.
Fax: (1) 303-497-5044

Conference Secretary: **Lorene Celano** Phone: (1) 303-497-3220

For further information, please access the Symposium web site at <http://thermosymposium.boulder.nist.gov>, or contact the organizers at symp18@boulder.nist.gov.

ANNOUNCEMENT AND CALL FOR PAPERS

Eighteenth Symposium on Thermophysical Properties



18

<http://thermosymposium.boulder.nist.gov>

June 24 - 29, 2012
University of Colorado at Boulder

Organized by:

- National Institute of Standards and Technology
- Joint ASME-AIChE Committee on Thermophysical Properties
- American Institute of Chemical Engineers
- American Society of Mechanical Engineers

ABOUT THE CONFERENCE

This is the Eighteenth Symposium of the well-established series of conferences on thermophysical properties. The Symposium is concerned with theoretical, experimental, simulation, and applied aspects of the thermophysical properties of gases, liquids, and solids, including biological systems. Appropriate topics are:

- *Thermodynamic Properties*, including equation of state, phase equilibria, p-V-T behavior, heat capacity, enthalpy, thermal expansion, sound speed, and critical phenomena.
- *Transport Properties*, including thermal and electrical conductivity, viscosity, mass diffusion, thermal diffusion, non-Newtonian behavior, thermal, thermoacoustic, and other diffusion waves.
- *Optical and Thermal Radiative Properties*, including dielectric constant, refractive index, emissivity, reflectivity, and absorptivity.
- *Interfacial Properties*, including solid-solid interfaces, surface tension, interfacial profiles, interfacial transport, and wetting.
- *Data Correlation*, including data evaluation and prediction, standard reference data, databases, and storage and retrieval of thermophysical property data.

CALL FOR PAPERS

Abstracts of 200-300 words must be received by November 23, 2011.

The abstracts must be submitted through the Symposium web page at <http://thermosymposium.boulder.nist.gov>. Further details will be provided in the second announcement. (All Symposium information will be available via the web site.)

The content of the abstracts will be the basis for acceptance of papers for presentation at the Symposium.

Oral, Poster, and Database Demonstration Sessions will be held as part of the Eighteenth Symposium on Thermophysical Properties. All presentations will receive equal recognition as Symposium contributions. Prospective authors will be asked to indicate whether a poster presentation, oral presentation, or database demonstration is preferred. The organizers will attempt to honor requests for each type of presentation, although the assignment of sessions may necessitate changes. Information on this subject will be included in the acceptance letters to be sent in December 2011. Papers describing all work presented at the Symposium are encouraged, but not required. Papers received by June 29, 2012 will be reviewed, and those accepted will be published in special issues of the *International Journal of Thermophysics* and other journals. *Electronic submission of manuscripts to the journal website is mandatory.*

TECHNICAL AREAS TO BE COVERED AT THE 18th SYMPOSIUM

- Correlations and Engineering Equations of State
- Databases and Software
- Non-equilibrium Thermodynamics
- Fluid Property Measurements
- Instrumentation and Measurement Techniques
- Inverse Problems and Non-destructive Evaluation
- Ionic Liquids
- Molecular Modeling and Simulation
- Optical and Thermal Radiative Properties
- Photothermal and Photoacoustic Techniques
- Properties for Alternative Energy
- Properties for Metallurgical Process Design
- Properties for Microelectronics, Photonics, and Optoelectronics
- Properties for Nanofluids and Nano/Microfluidics
- Properties of Aqueous Systems
- Properties of Biomaterials, Biosystems, and Biothermophotonics
- Properties of Fossil Fuels
- Properties of Mesoscopic and Macromolecular Systems
- Properties of Polymers
- Properties of Solids
- Properties of Refrigerants and Working Fluids
- Subsecond Thermophysics
- Thermal Properties of Nanostructured Materials
- Theory of Thermophysical Properties
- Wetting, Interfaces, and Membranes

The Symposium organizers can be reached through the Eighteenth Symposium e-mail address: symp18@boulder.nist.gov